Abstract of the Disclosure

[0081]   Multi-functional digital signal processing ("DSP") circuitry can perform any of a wide range of different DSP functions. For example, the DSP
5   circuitry can perform multiplication of simple or complex numbers of different lengths. The multiplication of simple (i.e., non-complex) numbers can be augmented with addition of the resulting products. The DSP circuitry can also support
10   implementing finite impulse response filters of either even or odd order.